PHILIPS

FW- C30

Mini Hi-Fi Systems

PHILIPS

Let's make things better.

México

$\overline{\text{NOM}}$·135·⊡
NYCE

Es necesario que lea cuidadosamente su instructivo de manejo.

PRECAUCIÓN - ADVERTENCIA
No abrir, riesgo de choque eléctrico
ATENCIÓN
**Verifique que el voltaje de alimentación
sea el requerido para su aparato**

**Para evitar el riesgo de choque eléctrico, no quite la tapa.
En caso de requerir servicio, dirijase al personal calificado.**

Descripción: **Minisistema de Audio**
Modelo: **FW-C30/21**
Alimentación: **110–127/220–240 V; ~50–60 Hz**
Consumo: **70 W**
Importador: **Philips Mexicana, S.A. de C.V.**
Domicilio: **Norte 45, #669, Col. Industrial Vallejo**
Localidad y Telefono: **C.P. 02300 México D.F., Tel. 728 42 00**
Exportador: **Philips Hong Kong**
País de Origen: **China**

Nº de Serie: _____

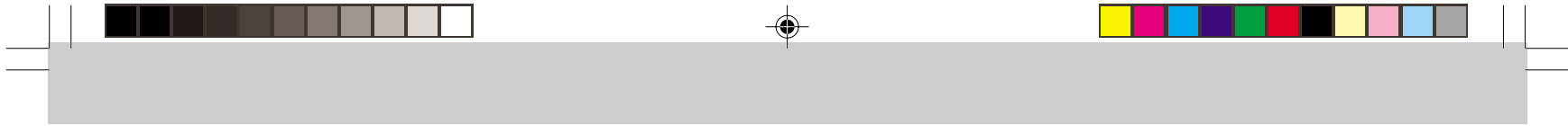**LEA CUIDADOSAMENTE ESTE INSTRUCTIVO
ANTES DE USAR SU APARATO.**

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English

Français

Español

中文

**CLASS 1
LASER PRODUCT**

3

4

CONTENTS

GENERAL INFORMATION

**IMPORTANT:
PLEASE NOTE THAT THE
VOLTAGE SELECTOR
LOCATED AT THE REAR OF
THIS SYSTEM IS PRESET AT
220V FROM THE FACTORY.
FOR COUNTRIES THAT
OPERATE AT 110V, PLEASE
ADJUST TO 110V BEFORE YOU
SWITCH ON THE SYSTEM.**

General Information

• *The type plate (which contains the serial number) is located at the rear of the system.*
• *Recording is permissible if copyright or other rights of third parties are not infringed.*

Environmental Information

All unnecessary packaging has been omitted. We have tried to make the packaging easy to separate into three materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

SAFETY INFORMATION

Accessories *(Supplied)*

– Remote control
– Batteries (two AA size) for remote control
– AM loop antenna
– FM wire antenna
– AC power cord

Safety Information

• Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The typeplate is located at the rear of your system.
• When the system is switched on, do not move it around.
• Place the system on a solid base (e.g. a cabinet).
• Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
  Allow at least 10cm clearance from the rear and the top of the unit and 5cm from each side.
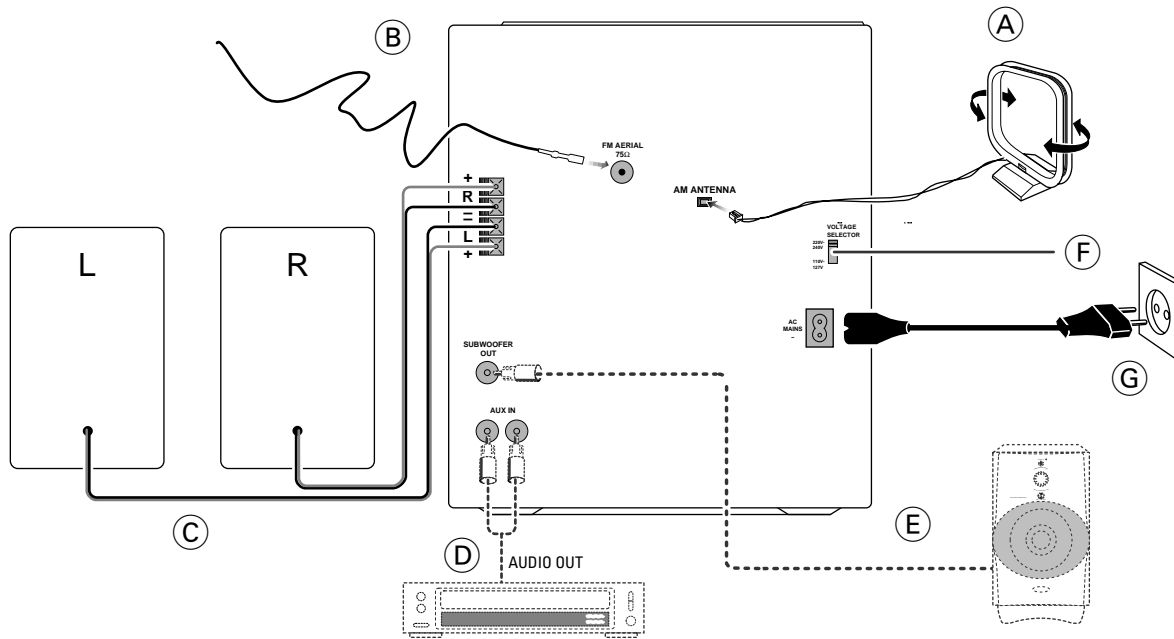
• Do not expose the system to excessive moisture, rain, sand or heat sources.
• Under no circumstances should you repair the system yourself, as this will invalidate the warranty!
• If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the CD unit inside the system. Should this occur, the CD player will not operate normally. Leave the power on for about one hour with no disc in the system until normal playback is possible.
• Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
• **To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**

English

Rear Connections

L

R

+
R
=
L
+

FM AERIAL
75Ω

AM ANTENNA

VOLTAGE
SELECTOR
220V
240V
110V
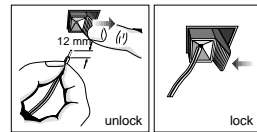127V

AC
MAINS

SUBWOOFER
OUT

AUX IN

AUDIO OUT

B

A

F

G

C

D

E

A AM Loop Antenna Connection

Connect the supplied loop antenna to the AM ANTENNA terminal. Place the AM loop antenna far away from the system and adjust its position for the best reception.
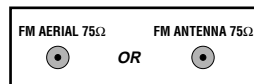
B FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM AERIAL (FM ANTENNA) 75 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna

For better FM stereo reception, connect an outdoor FM antenna to the FM AERIAL (FM ANTENNA) 75 Ω terminal using a 75 Ω coaxial wire.

FM AERIAL 75Ω		FM ANTENNA 75Ω
⊙	*OR*	⊙

C Speakers Connection

- Connect the right speaker to Front terminal R, with the colored wire to **+** and the black wire to **–** .
- Connect the left speaker to Front terminal L, with the colored wire to **+** and the black wire to **–** .
- Clip the stripped portion of the speaker wire as shown.

12 mm

unlock   lock

D Connecting other equipment to your system

You can connect the audio left and right OUT terminals of a TV, VCR, Laser Disc player, DVD player or CD Recorder to the AUX IN terminals at the rear of the system.

E Subwoofer Out Connection

Connect the optional active subwoofer to the SUBWOOFER OUT terminal. The subwoofer reproduces just the low bass sound effect (e.g. explosions, the rumble of spaceships, etc.). Be sure to follow the instructions supplied with the subwoofer.

F Adjusting the Operating Voltage

(not available for version /30)

Before connecting the AC power cord to the wall outlet, make sure that the voltage selector at the rear of the system is set to the local power line voltage. If not, reset the selector before connecting to the wall outlet.

G AC Power Supply

After all other connections have been made, connect the AC power cord to the system and to the wall outlet.
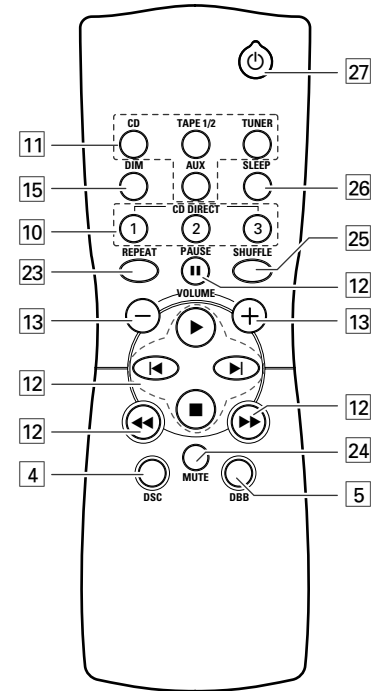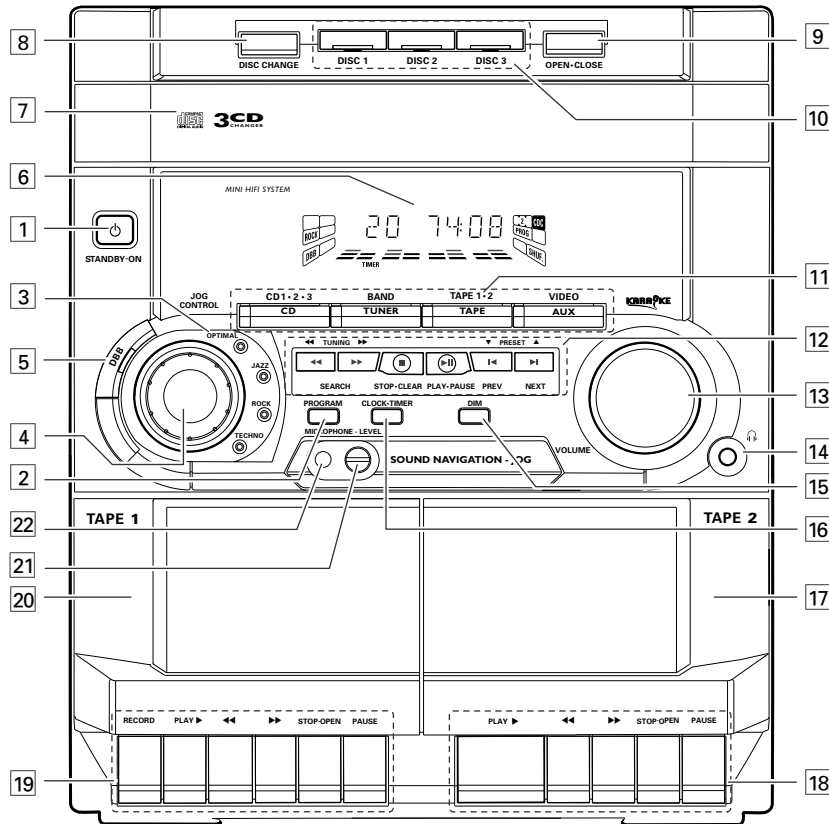
Inserting batteries into the Remote Control

- Insert the batteries (Type R06 or AA) into the remote control as shown in the battery compartment.
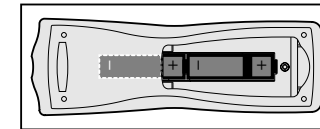
- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement, use type R06 or AA batteries.

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English

Controls on the system and remote control

1 **STANDBY ON**
- to switch the system on or to standby mode.
- to use for EASY SET.

2 **PROGRAM**
for CD .... to program CD tracks.
for TUNER ..... to program preset radio stations.
for CLOCK ..... to select 12- or 24-hour in clock setting mode.

3 **DIGITAL SOUND CONTROL DISPLAY PANEL**
- to view the desired DSC display.

4 **JOG CONTROL/DSC**
- to select the desired equalizer display: OPTIMAL, JAZZ, ROCK or TECHNO.

5 **DBB (DYNAMIC BASS BOOST)**
- to switch on bass boost to enhance bass response or to switch off bass boost.

6 **DISPLAY SCREEN**
- to view the current setting of the system.

7 **CD CAROUSEL TRAY**

8 **DISC CHANGE**
- to change CD(s).

9 **OPEN•CLOSE**
- to open or close the CD carousel tray.

10 **DISC 1 / DISC 2 / DISC 3 (CD DIRECT PLAY)**
- to select a CD tray for playback.

11 **SOURCE** – to select the following:
CD / (CD 1•2•3)
- to select CD mode. When CD playback is stopped, press to select disc tray 1, 2 or 3.
TUNER / (BAND)
- to select Tuner mode. When in tuner mode, press to select the waveband: FM or MW.
TAPE / (TAPE 1• 2)
- to select Tape mode.
AUX / (VIDEO)
- to select sound from an external source (e.g. TV, VCR, Laser Disc player, DVD player or CD Recorder).

12 **MODE SELECTION**
SEARCH ◀◀ ▶▶ (TUNING ◀◀▶▶)
for CD .... to search backward/ forward.
for TUNER ...... to tune to a lower or higher radio frequency.
for CLOCK ..... to set the hour *(on the system only)* .
STOP•CLEAR ■
for CD .... to stop CD playback or to clear a program.
for TUNER ..... to stop programming.
for DEMO ...... *(on the system only)* to start or stop demonstration mode.
PLAY ▶ / PAUSE ❚❚
for CD .... to start or interrupt playback.

PREV ❘◀ / NEXT ▶❘ (PRESET ▼▲)
for CD .... to skip to the beginning of the current, previous, or next track.
for TUNER ..... to select a preset station in memory.
for CLOCK ..... to set the minute *(on the system only)*.

13 **VOLUME**
- to increase or decrease the volume.

14 🎧
- to connect headphones.

15 **DIM**
- to select different brightness for the display screen : DIM 1, DIM 2, DIM 3 or DIM OFF.

16 **CLOCK•TIMER**
- to view the clock, set the clock or set the timer.

17 **TAPE DECK 2**

18 **TAPE DECK 2 OPERATION**
PLAY ▶ .... to start playback.
◀◀ .... to rewind the tape.
▶▶ .... to fast forward the tape.
STOP•OPEN…to stop playback or to open the tape door.
PAUSE .... to interrupt playback.

19 **TAPE DECK 1 OPERATION**
RECORD .... to start recording.
PLAY ▶ .... to start playback.
◀◀ .... to rewind the tape.
▶▶ .... to fast forward the tape.

STOP•OPEN…to stop playback/ recording or to open the tape door.
PAUSE .... to interrupt playback or recording.

20 **TAPE DECK 1**

21 **MIC LEVEL** *(not available for version /30)*
- to adjust the mixing level for karaoke or microphone recording.

22 **MICROPHONE** *(not available for version /30)*
- to connect microphones jack.

23 **REPEAT**
- to repeat a CD track, a disc, or all available discs.

24 **MUTE**
- to switch off the sound temporarily.

25 **SHUFFLE**
- to play all the available discs and their tracks in random order.

26 **SLEEP**
- to switch the system to standby mode at a selected time.
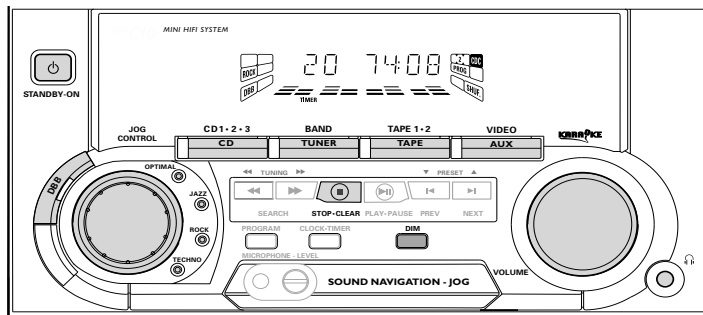
27 ⏻
- to switch the system to standby mode.

Notes for remote control:
- *First select the source you wish to control by pressing one of the source select keys on the remote control (e.g. CD ,TUNER, etc.).*
- *Then select the desired function (▶ , ❘◀, ▶❘, etc.).*

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Important:
Before you operate the system,
complete the preparation procedures.

Demonstration mode

The system has a demonstration mode that shows the various features offered by the system. **When the system is switched on for the first time, the demonstration mode will start automatically.**

Notes:
– *During the demonstration, if you press any source (or standby-on) button, the system will switch to the respective mode (or standby).*
– *When the system is switched to standby mode, the demonstration will resume five seconds later.*

To stop the demonstration mode
• Press and hold ■ *(on the system only)* for **5 seconds** when the system is in demonstration mode.
  → The demonstration will stop.
  → "DEMO OFF" is displayed.
  → The system will switch to standby mode.

Note:
– *Even though the AC power cord is removed from and reconnected to the wall socket, the demonstration will remain off until it is switched on again.*

To start the demonstration mode
• Press and hold ■ *(on the system only)* for **5 seconds** when the system is in standby mode.
  → The demonstration will begin.

Easy Set

EASY SET allows you to store all available radio stations automatically.

• Press and hold **STANDBY ON** *(on the system only)* for **5 seconds** when the system is in standby or demonstration mode.
  → "EASY SET" will be displayed, and followed by "TUNER" and then "AUTO".
  → EASY SET will start searching for all radio stations on FM band and then followed by radio stations on MW band.
  → All available radio stations with sufficient signal strength will be stored. Up to 40 presets may be stored.

Notes:
– *EASY SET will start with the FM band, if there are still presets available, the system will continue to store the MW band.*
– *When EASY SET is used, all previously stored radio stations will be replaced.*
– *The last preset radio station will appear on the display when EASY SET is completed.*

Switching the system ON

• Press **CD, TUNER, TAPE** or **AUX**.

You can also switch on the system by pressing any one of the CD DIRECT PLAY buttons.

Switching the system to standby mode

• Press **STANDBY ON** or ⏻ on the remote control.
  → The system will switch to standby mode.

Selecting the Source

• Press the respective source selection button: **CD, TUNER, TAPE** or **AUX**.
  → The display indicates the selected source.

Note:
– *For an external source, make sure you have connected the audio left and right OUT terminals of the external equipment (TV, VCR, Laser Disc player, DVD player or CD Recorder) to the AUX IN terminals.*
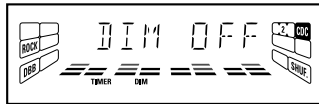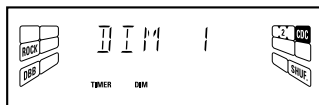
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DIM mode

You can select the desired brightness for the display.

- Press **DIM** to select DIM 1, DIM 2, DIM 3 or DIM OFF display mode.
  → The **DIM** display lights up.
  → "DIM 1","DIM 2","DIM 3" or "DIM OFF" will be displayed depending on the mode selected.

DIM OFF - normal brightness with Spectrum Analyzer On

DIM 1 - normal brightness with Spectrum Analyzer Off

DIM 2 - half brightness with Spectrum Analyzer On

DIM 3 - half brightness with Spectrum Analyzer Off and all LEDs on the system will be switched off.

Sound Control
VOLUME ADJUSTMENT

Adjust **VOLUME** to increase or decrease the sound level.

For Personal Listening
Connect the headphones plug to the 🎧 socket at the front of the system. The speakers will be muted.

DIGITAL SOUND CONTROL (DSC)

The DSC feature enables you to enjoy special sound effects that have preset equalizer settings, providing the best music reproduction.

- Adjust **JOG CONTROL** to select OPTIMAL, JAZZ, ROCK or TECHNO.
  → The Digital Sound Control display panel will light up respectively.
  → "OPTIMAL, JAZZ, ROCK or TECHNO" and the respective flag will be displayed.

Note:
– *When "OPTIMAL" sound is selected, DBB will be switched on automatically.*

DYNAMIC BASS BOOST (DBB)

The DBB mode enhances the bass response.

- Press **DBB** to switch on bass response.
  → The DBB button lights up.
  → "DBB ON" and the DBB flag will be displayed.

To switch off DBB

- Press **DBB** again.
  → The DBB button light is switched off.
  → "DBB OFF" will be displayed.

Note:
– *Some CDs or tapes might be recorded in high modulation, which causes a distortion at high volume. If this occurs, switch off DBB or reduce the volume.*

MUTE (only on remote control)
This feature allows you to temporarily switch off the sound of the system without switching off the system when you require a moment of silence.

- Press **MUTE** on the remote control to switch off the sound.
  → "MUTE" and the MUTE flag will be displayed.
- Press **MUTE** again on the remote control or increase the **VOLUME** to switch on the sound.

11
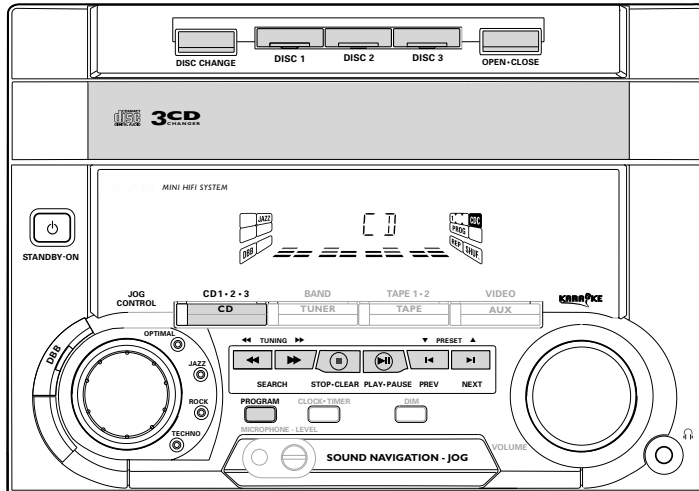
Warning!
1) **This system is designed for conventional CDs. Do not use any accessories such as disc stabilizer rings or CD treatment sheets, etc., which may damage the CD mechanism.**
2) **Do not load more than one disc into each tray.**
3) **When the CD changer is loaded with CDs, do not turn over or shake the system. This may jam the changer.**

You may load three discs in the CD changer for continuous playback without interruption.

Discs for playback

This system can play all digital audio CD, finalized digital audio CD-Recordable and finalized digital audio CD-Rewritable format discs.

Loading the CD Changer

1 Press **CD** to select CD mode.
2 Press **OPEN•CLOSE**.
   → The CD carousel tray slides out.
3 Load a CD with the printed side up in the right tray.
• You can load another disc in the left tray.
• To load the third disc, press the **DISC CHANGE** button.
   → The CD carousel tray will rotate until the empty tray is ready for loading.
4 Press **OPEN•CLOSE** to close the CD carousel tray.
   → The total number of tracks and the playing time of the selected disc appear on the display.

Note:
– *To ensure good system performance, wait until the CD changer completely reads the disc(s) before proceeding.*

CD Direct Play

• You can play a CD directly by pressing the **DISC 1**, **DISC 2** or **DISC 3** button. The CD player will stop at the end of playback of the selected disc.
   → A lit button indicates that a disc is loaded in the disc tray.
   → A flashing button indicates that a disc is playing.

Playing a CD

1 Press ▶ to start playback.
   → The disc tray, track number and elapsed playing time of the current track appear on the display.
• To interrupt playback, press ❙❙ .
   → The playing time flashes.
• To resume playback, press ▶ again.
2 To stop playback, press ■ .

Note:
– *All the available discs will play once, then stop.*

Disc Change

You can change the outer two discs while the third inner disc is stopped or is playing.

1 Press **DISC CHANGE**.
   → The CD carousel tray slides out.
2 Replace the discs in the left and right disc trays.
• If you press **DISC CHANGE** again during playback, the CD will stop playing.

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→ The CD carousel tray will rotate until the inner tray is rotated out and is ready for changing.

3 Press **OPEN•CLOSE** to close the CD carousel tray.

Selecting a desired track

Selecting a desired track when playback is stopped

1 Press |◀ or ▶| until the desired track appears on the display.

2 Press ▶ to start playback.
   → The selected track number and elapsed playing time appear on the display.

Selecting a desired track during playback

• Press |◀ or ▶| until the desired track appears on the display.
   → The selected track number and elapsed playing time appear on the display.

• If you press |◀ once it will skip to the beginning of the current track and play the track again.

Note:

– Pressing |◀ during shuffling can only skip to the beginning of the current track.

Searching for a particular passage during playback

• Press and hold ◀◀ or ▶▶ until the desired passage is located.
   → The volume will be reduced.

• Play returns to normal when ◀◀ or ▶▶ is released.

Programming Tracks

Programming tracks of a loaded CD is possible when playback is stopped. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL".

1 Load the desired discs in the disc trays.

2 Press **PROGRAM** to start programming.
   → The PROG flag starts flashing.
   → It will cancel any previously selected repeat mode.

3 Press the **CD** (CD 1•2•3) or **DISC 1/2/3** button to select the disc.

4 Press |◀ or ▶| to select the desired track.

5 Press **PROGRAM** to store the track.

• Repeat steps *3* to *5* to store other discs and tracks.

6 Press ■ once to end programming.
   → The total number of tracks programmed and total playing time appear on the display.

Notes:

– If the total playing time is more than "99.59" or if one of the programmed tracks has a number greater than 30, then "--:--" appears on the display instead of the total playing time.

– If the system is reading the discs, programming is not possible, "READING" will be displayed and followed by "DISC X". "X" is the current read disc number.

– During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.

Reviewing the program

Reviewing of the program is possible only when playback is stopped.

• Press |◀ or ▶| repeatedly to review the programmed tracks.

• Press ■ to exit review mode.

Playing the program

1 Press ▶ to start program playback.
   → "PLAY PROGRAM" will be displayed.
   → The track number and elapsed playing time of the current track will appear on the display.

• If you press **REPEAT** during program playback, the current track or all programmed tracks will be played repeatedly.

→ "TRACK" or "PROGRAM" will be displayed.

→ The REP and PROG flags appear on the display.

2 Press ■ to stop program playback.

Notes:

– If you press any of the CD DIRECT PLAY buttons, the system will play the selected disc or track and the stored program will be ignored temporarily. The PROG display also will disappear temporarily from the display. It will reappear when playback of the selected disc ends.

– REPEAT DISC mode will be cancelled when program playback begins.

Erasing the program *(when playback is stopped)*

• Press ■ .
   → "PROGRAM CLEARED" will be displayed.

Note:

– The program will be erased when the system is disconnected from the power supply or when the CD carousel tray is opened.

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Shuffle *(only on remote control)*

In shuffle mode, the system plays all the available discs and their tracks in random order. Shuffle may be used also when tracks are programmed.

To shuffle all the discs and tracks

1 Press **SHUFFLE**.
  → "SHUFFLE" will be displayed.
  → The **SHUF** flag, the disc and the track selected at random appear on the display.
● The discs and the tracks will be played in random order until you press ■ .
● If you press **REPEAT** during shuffling, the current track or all available discs will be played repeatedly.
  → "TRACK" or "ALL DISC" will be displayed.
  → The **REP** and **SHUF** flags appear on the display.
2 Press **SHUFFLE** again to resume normal playback.
  → The **SHUF** flag disappears from the display.

Note:
*– REPEAT DISC mode will be cancelled when shuffle is selected.*

Repeat *(only on remote control)*

You can play the current track, a disc or all available discs repeatedly.

1 Press **REPEAT** on the remote control to select the various repeat modes.
  → "TRACK", "DISC", "ALL DISC" or "OFF" will be displayed.
  → The **REP** flag appears on the display.
● The selected track, selected disc or all available discs will now be played repeatedly until you press ■ .
2 Press **REPEAT** until the "OFF" mode is displayed to resume normal playback.
  → The **REP** flag disappears from the display.

Notes:
– REPEAT DISC mode is not available during program play or shuffle mode.
– You can also repeat shuffling a program.
  → *"TRACK" or "PROGRAM" will be displayed.*
  → *The REP, PROG, and SHUF flags appear on the display.*
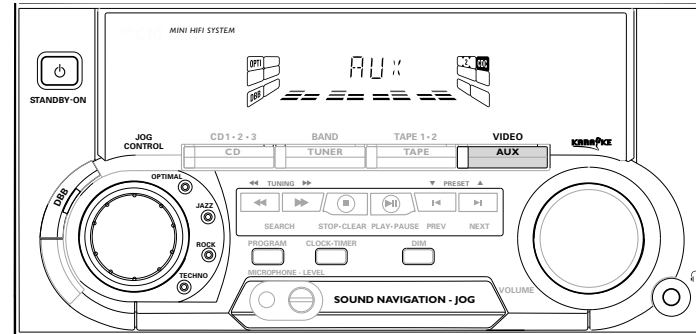
Selecting External Equipment
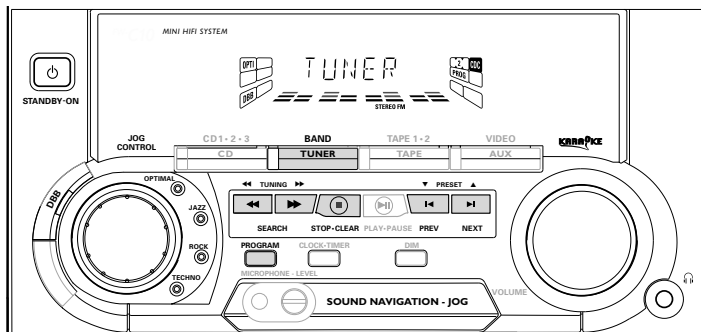
If you have connected the audio out terminals of the external equipment (TV, VCR, Laser Disc player, DVD player or CD Recorder) to the AUX IN terminals, you can hear the enhanced sound from the system.

● Press **AUX** to select the external equipment.
  → "AUX" will be displayed.

Note:
– All the sound control features (e.g. DSC, DBB, etc.) are available for selection.

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Note:
– For 'EASY SET' feature, please refer to page 10.

Tuning to radio stations

1 Press **TUNER** (BAND) to select TUNER mode.
→ "*TUNER*" will be displayed.
A few seconds later, the current radio frequency will be displayed.
2 Press **TUNER** (BAND) again to select the desired waveband : FM or MW.
3 Press ◄◄ or ►► for more than one second, then release.
→ The display will show "*SEARCH*" until a radio station with sufficient signal strength is found.

• Repeat this procedure until the desired station is reached.
• To tune to a weak station, briefly press ◄◄ or ►► repeatedly until the display shows the desired frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 40 radio stations in the memory. When a preset radio station is selected, the preset number appears next to the frequency on the display.

Automatic programming

1 Press **TUNER** (BAND).
2 Press **PROGRAM** for more than one second.
→ The PROG flag starts flashing and "*AUTO*" will be displayed.
→ The system will search for every available station in the FM waveband first, then search the MW waveband.
→ All available stations will be stored automatically. The frequency and preset number will be displayed briefly.
→ The system will stop searching when all the available radio stations are stored or when the memory for 40 preset radio stations is used.
→ The system will remain tuned to the last stored preset radio station.

Notes:
– You can cancel the automatic programming by pressing PROGRAM or ■ (on the system only).
– If you want to reserve a section of preset numbers, for example preset numbers 1 to 9, select preset 10 before starting automatic programming, only the preset numbers 10 to 40 will be programmed.

Manual programming

1 Press **TUNER** (BAND).
2 Press **TUNER** (BAND) again to select the desired waveband : FM or MW.
3 Press **PROGRAM** for less than one second.
→ The PROG flag starts flashing.
→ The next available preset number will be displayed for selection.
4 Press ◄◄ or ►► to tune to the desired frequency.
• If you wish to store the radio station to another preset number, press ▼ or ▲ to select the desired preset number.
5 Press **PROGRAM** again.
→ The PROG flag disappears and the radio station will be stored.

• Repeat *steps 3 – 5* to store other preset radio stations.

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Notes:
– *When 40 radio stations are stored and you attempt to store another radio station, the display will show "PROGRAM FULL". If you want to change an existing preset number, repeat steps 3 – 5.*
– *You can cancel manual programming by pressing ■ (on the system only).*
– *During programming, if no button is pressed within 20 seconds, the system will exit program mode automatically.*

Tuning to Preset Radio Stations

● Press ▼ or ▲ to select the desired preset number.
  → The preset number, radio frequency, and waveband appear on the display.

Changing the MW tuning grid
(not available for version /30)
The frequency step can be changed if necessary. In North and South America, the frequency step between adjacent channels in the MW band is 10 kHz. In other parts of the world, it is 9 kHz. The frequency step preset in the factory is 9 KHz.

For MW Band
To change from 9 kHz to 10 kHz or vice versa

Changing of tuning grid will erase all previously stored preset stations.

1 Disconnect the system from the AC power supply *(pull out the AC power cord)*.
2 Press and hold **TUNER** and **TUNING** ▶▶ while reconnecting the system to the AC power supply.
  → Display will show "GRID 10" or "GRID 9".

Notes:
– *GRID 9 indicates that the tuning grid is in step of 9 kHz in MW band. GRID 10 indicates that the tuning grid is in step of 10 kHz in MW band.*
– *FM tuning grid will also be changed from 50 kHz to 100 kHz or vice versa. All preset stations will also be erased.*

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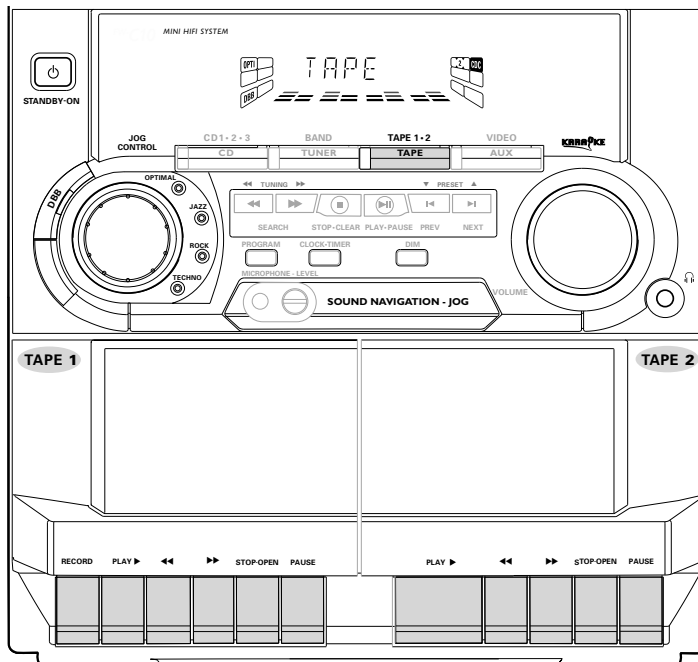
Loading a tape

1 Press **STOP•OPEN**.
2 The tape deck door opens.
3 Load the tape with the open side downward and the full spool to the left.
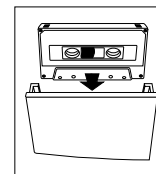
4 Close the tape deck door.

Tape Playback

1 Press **TAPE** to select TAPE mode.
→ "TAPE" will be displayed.
2 Load the tape into the selected tape deck.
3 Press **PLAY ▶** to start playback.
• To interrupt playback, press **PAUSE**.
• To resume playback, press **PAUSE** again.
4 Press **STOP•OPEN** to end playback.

Rewind/Fast Forward

When playback is stopped

1 You can rewind or fast forward a tape by pressing ◀◀ or ▶▶ , respectively.
→ The tape will stop automatically at the end of rewinding or fast forwarding.
2 Press **STOP•OPEN** to stop rewinding or fast forwarding.

Continuous Playback From Tape Deck 2 to Tape Deck 1

1 Press **TAPE** to select TAPE mode.
2 Load the tapes in tape decks 1 and 2.
3 Press **PLAY ▶** on tape deck 2.
4 Press **PAUSE** on tape deck 1.
5 Press **PLAY ▶** on tape deck 1.
→ Playback will begin with tape deck 2 and will continue with tape deck 1 when playback on tape deck 2 ends.
6 Press **STOP•OPEN** if you want to stop playback before the end of the tape in tape deck 1 or tape deck 2.

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English

Notes:
– During rewinding or fast forwarding of a tape, it is also possible to listen to another source (e.g. CD, TUNER or AUX).
– Before playing a tape, check and tighten slack tape with a pencil. Slack tape may get jammed or may burst in the mechanism.
– C-120 tape is extremely thin and is easily deformed or damaged. It is not recommended for use in this system.
– Store the tapes at room temperature and do not put them too close to a magnetic field (for example, a transformer, TV or speaker).

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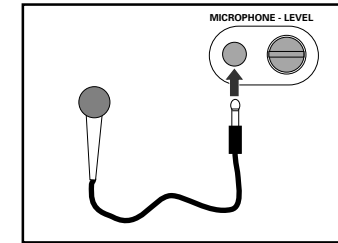
Microphone Mixing *(not available for version /30)*

1 Set the **MIC LEVEL** control to the minimum level to prevent acoustic feedback (e.g. a loud howling sound) before you connect the microphone.
2 Connect a microphone to the **MICROPHONE** socket.
3 Press **CD**, **TUNER**, **TAPE** or **AUX**.
4 Play the selected source.
5 Adjust the volume level with **VOLUME** control.
6 Adjust the **MIC LEVEL** control to the mixing level that you want.
7 Start singing or talking through the microphone.

Note:
– Keep the mic away from the speakers to prevent howling

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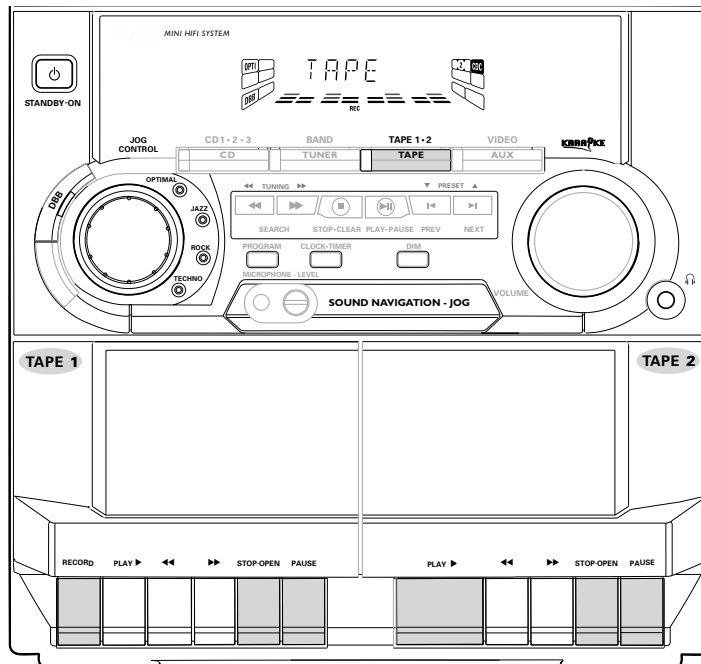
Notes:
- *For recording, use only tape of IEC type I (normal tape).*
- *The tape is secured at both ends with leader tape. At the beginning and end of tape, nothing will be recorded for six to seven seconds.*
- *The recording level is set automatically, regardless of the position of Volume, DBB or DSC.*
- *To prevent accidental recording, break out the tab on the left shoulder of the tape side you want to protect.*

One Touch Recording

- For One Touch Recording, as soon as you press RECORD, the current source (CD, TUNER or AUX) will be recorded on tape deck 1.

1 Load a blank tape in tape deck 1.
2 Press **RECORD** on tape deck 1 to start recording.
→ The **REC** starts flashing.
3 Press **PAUSE** to interrupt recording.
4 Press **STOP•OPEN** on tape deck 1 to stop recording.

CD Synchro Start Recording

During CD synchro start recording,
- Do not fast forward/rewind your tape in tape deck 2.
- Do not listen to another source.

1 Load a blank tape into tape deck 1 and a disc into the disc tray.
2 Press **CD**.
- You can program the tracks in the order you want them to be recorded (see Programming Tracks). If you do not, the tracks are recorded according to the order on the selected disc.
3 Press **RECORD** on tape deck 1 to start recording.
→ The **REC** starts flashing.
4 Press **STOP•OPEN** on tape deck 1 to stop recording, then press ■ to stop CD playback.

Dubbing tapes *(from tape deck 2 to tape deck 1)*

1 Load the prerecorded tape into tape deck 2 and a blank tape into tape deck 1.
- Make sure both tapes have their full spool to the left.
2 Press **PAUSE** on tape deck 1.
3 Press **RECORD** on tape deck 1.
4 Press **PLAY ▶** on tape deck 2.
→ The **REC** starts flashing.
- Recording will start automatically.

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5 Press **STOP•OPEN** on tape deck 1 and
tape deck 2 to stop dubbing.

Notes:
– At the end of side A, flip the tapes to
side B and repeat the procedure.
– Dubbing of tapes is only possible from
tape deck 2 to tape deck 1.
– To ensure good dubbing, use tapes of
the same length.

Recording from other sources

(only on tape deck 1)
1 Load a blank tape into tape deck 1.
2 Press **CD**, **TUNER**, **TAPE** or **AUX**.
• Start playback of the selected source.
3 Press **RECORD** on tape deck 1 to start
recording.
→ The **REC** starts flashing.
4 Press **PAUSE** to interrupt recording.
5 Press **STOP•OPEN** on tape deck 1 to
stop recording.

Note:
– During recording, it is not possible to
listen to another sound source.
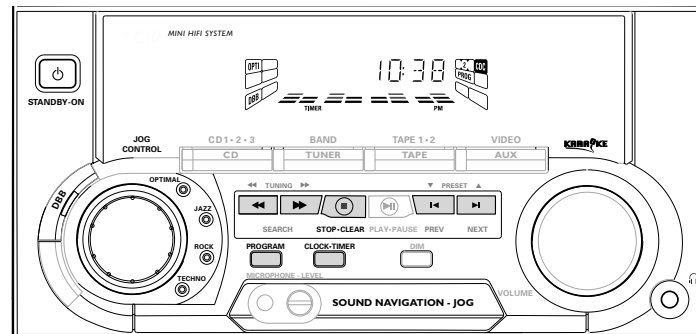
View Clock

You can view the clock (if it is set) if the
system is in Standby mode or when any
sound source is selected (CD, TUNER, etc.).
The clock will be displayed for about seven
seconds.

• Press **CLOCK•TIMER** briefly.
→ " *10:38* **PM** or *22:38*" (the current
time in either 12- or 24-hour mode)
will be displayed depending on
whether you have selected 12- or 24-
hour mode.
→ "*-- : --*" will be displayed if the
clock is not set.

Clock Setting

The clock can be set in either 12- or 24-
hour mode, e.g. " *12:00* **AM**" or
"*00:00*". Before setting the clock, you
must be in the View Clock mode.

1 Press **CLOCK•TIMER** to select clock
mode.
2 Press **PROGRAM** to select 12- and 24-
hour mode.
→ If 12-hour mode is selected,
" *12:00*" starts flashing and the **AM**
lights up.
→ If 24-hour mode is selected,
"*00:00*" starts flashing.
3 Set the hour with ◀◀ or ▶▶ on the
system.
4 Set the minute with I◀ or ▶I on the
system.

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English

5 Press **CLOCK•TIMER** again to store the setting.
→ The clock starts.

• To exit without storing the setting, press ■ on the system.

Notes:
– During clock setting, if no button is pressed within 90 seconds, the system will exit clock setting mode automatically.
– When a power interruption occurs, the clock setting is erased.

Timer Setting

• The system can switch on to CD or TUNER mode automatically at a preset time. It can serve as an alarm to wake you up.
• Before setting the timer, make sure the clock is set correctly.
• The timer will always be switched on once it is set.
• **The volume of the timer will increase from the minimum level until the volume level before the set is switched to standby mode.**

1 Press and hold **CLOCK•TIMER** for more than *2 seconds* to select timer mode.
→ " 12:00 **AM**" or "00:00" or the last timer setting starts flashing depending on whether you have selected 12- or 24-hour mode.

→ The **TIMER** starts flashing.
→ The selected source is lit while other available sources are flashing.
2 Press **CD** or **TUNER** to select the desired source.
• Before selecting CD, make sure a CD is loaded in the CD carousel tray.
3 Press ◄◄ or ►► on the system to set the hour for the timer to start.
4 Press I◄ or ►I on the system to set the minute for the timer to start.
5 Press **CLOCK•TIMER** to store the start time.
→ The timer is now set.
→ The **TIMER** remains on the display.
• At the preset time, the timer will be activated.
→ The selected source will be played.

Notes:
– During timer setting, if no button is pressed within 90 seconds, the system will exit timer setting mode automatically.
– If the source selected is TUNER, the last tuned frequency will be switched on.
– If the source selected is CD, playback will begin with the first track of the selected disc or program. If the CD trays are empty, the TUNER will be selected instead.
– The timer will not activate if a recording is in progress.

To switch off the TIMER
1 Press and hold **CLOCK•TIMER** for more than *2 seconds*.
2 Press ■ on the system to cancel the timer.
→ The timer is now switched off.
→ The display will show "CANCEL" and the **TIMER** disappears.

To start the TIMER again *(for the same preset time and source)*
1 Press and hold **CLOCK•TIMER** for more than *2 seconds*.
2 Press **CLOCK•TIMER** again to store the start time.
→ The timer is now on.
→ The **TIMER** appears on the display.

Sleep Timer *(only on remote control)*
This feature allows you to select a length of time after which the system will switch to the standby mode automatically.

1 Press **SLEEP** on the remote control repeatedly to select a period of time.
→ The selections are as follows (time in minutes):
60 → 45 → 30 → 15 → OFF → 60
...
→ "SLEEP XX" or "OFF" will be displayed. "XX" is the time in minutes.
2 When you reach the desired length of time, stop pressing the **SLEEP** button.
→ After this amount of time passes, the system will switch to the standby mode.

To switch off the Sleep Timer
• Press **SLEEP** repeatedly until "OFF" is displayed, or press the **STANDBY ON** button.

SPECIFICATIONS

Specifications

AMPLIFIER

Output power

PMPO .... 1000 W

RMS[1] .... 2 x 35 W

Signal-to-noise ratio .... ≥ 67 dBA (IEC)

Frequency response .... 50 – 15,000 Hz, ± 3dB

Input sensitivity

AUX In ....700 mV

Microphone *(not available for version /30)* ...... 3.5 mV

Output

Speakers .... ≥ 6 Ω

Headphones .... 32 Ω – 1000 Ω

Subwoofer .... 1.5 V

(1) (6Ω,1kHz, 10% THD)

CD PLAYER

Number of programmable tracks 40

Frequency response .... 20 – 20,000 Hz

Signal-to-noise ratio .... ≥ 80 dBA

Channel separation .... ≥ 60 dB (1 kHz)

Total harmonic distortion .... < 0.003%

TUNER

FM wave range .... 87.5 – 108 MHz

MW wave range (9 kHz) .... 531 – 1602 kHz

MW wave range (10 kHz) .... 530 – 1700 kHz

Tuning grid .... 9/10 kHz

Number of presets 40

Antenna

FM .... 75 Ω wire

AM .... Loop antenna

TAPE DECK

Frequency response

Normal tape (type I) .... 80 – 12,500 Hz (8 dB)

Signal-to-noise ratio

Normal tape (type I) .... ≥ 48 dBA

Wow and flutter .... ≤ 0.4% DIN

SPEAKERS

System .... 2 way; double port bass reflex

Impedance .... 6 Ω

Woofer .... 1 x 5.25"

Tweeter .... 1 x 2.5"

Dimensions (w x h x d) .... 210x 310x 240 (mm)

Weight .... 2.9 kg each

GENERAL INFORMATION

Material .... Polystyrene

AC Power

For Version /21 .... 110 - 127 / 220 - 240 V;

.... 50/60Hz; Switchable

For Version /30 .... 230 - 240 V; 50 Hz

Power Consumption

Active .... 70 W

Standby .... < 15 W

Dimensions (w x h x d) .... 265x 310x 340 (mm)

Weight (without speakers) .... 6.6 kg

Subject to modification

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Maintenance
Cleaning the Cabinet
- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog records.
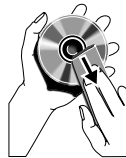
Cleaning the CD lens
- After prolonged use, dirt or dust may accumulate at the CD lens. To ensure good playback quality, clean the CD lens with Philips CD Lens Cleaner or any commercially available cleaner. Follow the instructions supplied with cleaner.

Cleaning the Heads and the Tape Paths
- To ensure good recording and playback quality, clean the heads, the capstan(s), and pressure roller(s) after every 50 hours of tape operation.
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.
- You can also clean the heads by playing a cleaning tape once.

Demagnetizing the heads
- Use a demagnetizing tape available at your dealer.

Warning! Under no circumstances should you try to repair the set yourself as this will invalidate the guarantee. Do not open the set as there is a risk of electric shock.

- If a fault occurs, check the points listed below before taking the system for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

CD Player Operation

"NO DISC" is displayed.
- The disc is inserted upside down.
→ *Place CD with printed side up.*
- Moisture condensation at the lens.
→ *Wait until lens has adjusted to normal room temperature.*
- There is no disc in the CD tray.
→ *Insert a CD.*
- The CD is dirty, badly scratched or warped.
→ *Clean or replace the CD.*
- The CD lens is dirty or dusty.
→ *See section under Maintenance (page 23).*

"DISC NOT FINALIZED" is displayed.
- The CD-RW or CD-R disc is not properly recorded for use with a standard CD player.
→ *Read the instruction booklet of your CD-Rewritable or CD-Recorder on how to finalize a recording.*
- The CD is badly scratched or dirty.
→ *Replace or clean CD.*

Radio Reception

Poor radio reception.
- The signal is too weak.
→ *Adjust the antenna.*
→ *Connect an external antenna for better reception.*
- The TV or VCR is too close to the stereo system.
→ *Separate the stereo system from the TV or VCR.*

Cannot tune to station
- Wrong tuning grid.
→ *Switch to the correct tuning grid.*

TROUBLESHOOTING

Tape Deck Operation

"RECORDING ACTIVE" is displayed.
- A recording is in progress.
- → *Stop the recording or wait until it is finished.*

Recording or playback cannot be made or there is a decrease in audio level.
- Dirty tape heads, capstans or pressure rollers.
- → *See section on tape deck maintenance (page 23).*
- Magnetic build-up in the record/playback head.
- → *Use demagnetizing tape.*

General

System does not react when any button is pressed.
- Electrostatic discharge.
- → *Press STANDBY ON to switch the system off. Remove the AC power plug from the wall outlet, then reconnect the power plug and switch on the system again.*

No or poor sound.
- Volume is not turned up.
- → *Adjust VOLUME.*
- The headphones are connected.
- → *Disconnect the headphones.*
- Speakers are not connected or are connected wrongly.
- → *Check that the speakers are connected correctly.*
- → *Make sure the stripped speaker wire is clamped.*

Reversed left and right sound.
- Speakers are connected wrongly.
- → *Check the speaker connections and location.*

Lack of bass sound or apparently imprecise physical location of musical instruments.
- Speakers are connected wrongly.
- → *Check the speaker connection for proper phasing, colored/black wires to colored/black terminals.*

Remote control has no effect on the system.
- Wrong source is selected.
- → *Select the source (CD, TUNER, etc.) before pressing the function button, (▶, ◀◀, ▶▶, etc.).*
- The distance to the system is too large.
- → *Reduce the distance.*
- Batteries are inserted incorrectly.
- → *Insert the batteries with their polarities (+/– signs) as indicated.*
- Batteries are exhausted.
- → *Replace the batteries.*

Timer is not working.
- Clock is not set.
- → *Set the clock.*
- Timer is not switched on.
- → *Press CLOCK•TIMER to switch on the timer.*
- Recording is in progress.
- → *Stop recording.*

Clock setting is erased.
- There was a power failure.
- → *Reset the clock.*

System displays features automatically; buttons flash continuously.
- Demonstration mode is switched on.
- → *Press and hold ■ (on the system) for 5 seconds to switch off the demonstration.*

All lighted buttons are not lit.
- Display is switch on in DIM 3 mode.
- → *Press DIM until DIM OFF display mode is shown.*

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